

SECTION 10 21 15

PLASTIC TOILET COMPARTMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Toilet compartments.
- B. Urinal screens.

1.02 RELATED SECTIONS

- A. Structural members for ceiling supported units are specified in Section 05 12 00 - Structural Steel Framing, and Section 05 50 00 - Metal Fabrications. Coordinate installation and anchorage requirements with the foregoing specified Division 5 Sections.

1.03 MEASUREMENT AND PAYMENT

- A. General: Plastic toilet compartments will not be measured separately for payment but will be paid for as part of the Contract lump-sum price for Architectural Work.

1.04 SUBMITTALS

- A. General: Refer to Contract Specifications Section 01 33 00 - Submittal Procedures, and Section 01 33 23 - Shop Drawings, Product Data, and Samples, for submittal requirements and procedures.
- B. Shop Drawings: Show compartment and urinal screen layouts, swing of doors, elevations, anchorage and installation details, components, hardware, accessories, finishes, and relevant dimensions.
- C. Product Data: Submit manufacturer's product data of specified toilet compartments and urinal screens, including color charts for color selection.

PART 2 - PRODUCTS

2.01 TOILET COMPARTMENTS

- A. Plastic Material: Partition panels, pilasters, and doors, and urinal screens shall be manufactured from high-density polymer resins which are waterproof, non-absorbent, and have a self-lubricating surface that resists markings from pens, pencils, and other writing instruments. Selected color shall extend uniformly throughout the body of the plastic panels.
- B. Compartment Type: Toilet compartments shall be of the following types as indicated:
 - 1. Floor Supported and Headrail Braced Units: Floor-anchored pilasters with pilasters connected and reinforced by headrail bracing, and wall-mounted partition panels.
 - 2. Floor Supported Units: Floor-anchored pilasters and wall-mounted partition panels.

3. Ceiling Supported Units: Ceiling hung pilasters anchored to concealed, above-ceiling structural members, and wall-mounted partition panels.
- C. Doors, Panels, and Pilasters: Flush panel, one-inch thick, solid homogeneous color as selected, with smooth rounded edges.
 - D. Installation Accessories: Provide all fittings, fasteners, and installation hardware as required for a complete and finished installation. Anchorage and installation accessories shall be 300 series stainless steel and shall be concealed and made vandal-proof with the installation of stainless steel trim plates secured with theft-proof bolts. Stirrup brackets used to attach panels and pilasters shall be heat-treated, polished, clear anodized aluminum.
 - E. Hardware: Hardware shall consist of standard type gravity hinge which allows the door to remain open at any angle, heavy latch with combination keeper and rubber-faced strike, and coat hook with rubber bumper. Hardware shall be stainless steel or chrome-plated alloy as noted herein, manufactured or furnished by the manufacturer of the toilet partitions. Hardware shall include the following features and accessories:
 1. Each door shall be equipped with chrome-plated, cast alloy coat hook and bumper, concealed latch with stainless steel bolt permitting exterior access, one-piece chrome-plated stop and keeper, and concealed controlled power bearing gravity hinge.
 2. Door shall be adjustable to permit rest position at any angle within a 270-degree arc, and the weight shall be carried by a thrust bearing with all moving parts concealed within door thickness.
 3. Partition hardware, including hinge pins, shall be 300 series stainless steel. The hardware shall be specifically designed for use with polymer resins panels.
 4. Fasteners shall be stainless steel, tamper-resistant.

2.02 URINAL SCREENS

- A. Urinal screens shall be manufactured from polymer resins of same materials and construction as herein specified for partition panels, and shall be furnished complete with all fittings, fastenings, and anchorage devices as required for a complete installation.
- B. Urinal screens shall be flush panel, wall-mounted with brackets or floor-supported with pilasters as indicated. Urinal screens shall be 18 inches in width for wall-mounted screens and 24 inches in width for floor-supported screens.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Toilet compartments and urinal screens shall be installed as indicated by the manufacturer or its authorized representative in accordance with the manufacturer's installation instructions and recommendations. Install toilet compartments and urinal screens in a rigid and substantial manner, straight and plumb, with all horizontal lines level.

- B. Pilaster anchors shall be carried through finish floor materials and secured to concrete slab for floor-supported units, and through finish ceiling materials and secured to above-ceiling structural supports for ceiling-supported units, as indicated, with shoes and adjustable anchors. Anchors require specific approval by the Engineer before they may be used in post-tensioned slabs, beams, and girders.
- C. Drilling and cutting for installation of anchors shall be at locations that will be concealed in the finished work. Adjust pilaster shoes to fit flush against the floor and ceiling, as applicable. Clearance at walls shall be approximately 1/2 inch. Clearance at vertical edges of doors shall be uniform from top to bottom and shall not exceed 3/16-inch.

3.02 ADJUSTMENTS

- A. Adjust and lubricate hardware for proper operation after installation and just prior to final inspection. Adjust door hardware so that doors are free of hinge bind.
- B. Adjust hinges on in-swinging doors to hold doors open approximately 30 degrees from the closed position when unlatched. Adjust hinges on out-swinging doors to return doors to the fully open position (90 degrees) when doors are adjacent to walls, and to hold doors open approximately 15 degrees at intermediate locations.

3.03 COMPLETION

- A. After completion of installation, remove protective maskings; clean exposed surfaces of compartments and urinal screens, hardware, fittings, and accessories.
- B. When complete, each compartment and urinal screen shall be square, plumb and level, accurately aligned, and securely anchored. Doors shall remain plumb in all positions of swing, and doors and hardware shall operate smoothly, quietly, and free from binding. Exposed surfaces shall be clean and free from scratches, dents, tool marks, stains, discoloration, and other defects and damage.

END OF SECTION 10 21 15